

What is claimed is:

1. A thermoplastic molding composition, comprising a mixture of
 - 5 (A) from 30 to 69% by weight, based on the sum of components (A), (B) and (C), of a methyl methacrylate polymer obtainable by polymerizing a mixture consisting of
 - 10 (A1) from 90 to 100% by weight, based on (A), of methyl methacrylate, and
 - (A2) from 0 to 10% by weight, based on (A), of a C₁-C₈-alkyl ester of acrylic acid, and
 - 15 (B) from 30 to 69% by weight, based on the sum of components (A), (B) and (C), of a copolymer obtainable by polymerizing a mixture consisting of
 - 20 (B1) from 75 to 88% by weight, based on (B), of a styrenic monomer and
 - (B2) from 12 to 25% by weight, based on (B), of a vinyl cyanideand
 - 25 (C) from 1 to 40% by weight, based on the sum of components (A), (B) and (C), of a graft copolymer obtainable from
 - 30 (C1) from 60 to 90% by weight, based on (C), of a core obtainable by polymerizing a monomer mixture consisting of
 - (C11) from 65 to 90% by weight, based on (C1), of a 1,3-diene and
 - (C12) from 10 to 35% by weight, based on (C1), of a styrenic monomerand
 - 40 (C2) from 5 to 20% by weight, based on (C), of a first graft shell and
 - (C3) from 5 to 20% by weight, based on (C), of a second graft shell obtainable by polymerizing a monomer mixture consisting of
 - 45 (C31) from 70 to 98% by weight, based on (C3), of a C₁-C₈-alkyl ester of methacrylic acid and

(C32) from 2 to 30% by weight, based on (C3), of a C₁-C₈-alkyl ester of acrylic acid

and

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(D) if desired, customary additives in amounts of up to 20% by weight, based on the sum of components (A), (B) and (C),

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with the proviso that the weight ratio of (C2) to (C3) is in the range from 2:1 to 1:2,

wherein the first graft shell (C2) is obtainable by polymerizing a monomer mixture consisting of

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(C21) from 30 to 39% by weight, based on (C2), of a styrenic monomer,

(C22) from 61 to 70% by weight, based on (C2), of a C₁-C₈-alkyl ester of methacrylic acid and

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(C23) from 0 to 3% by weight, based on (C2), of a crosslinking monomer.

2.

The thermoplastic molding composition according to claim 1, wherein the refractive index (n_D -C₂) of the first graft shell (C2) is greater than the refractive index (n_D -C₃) of the second graft shell (C3), and the refractive index (n_D -C₁) of the core (C1), and the magnitude of the difference of the refractive index (n_D -C) of the overall component (C) and the refractive index (n_D -AB) of the overall matrix of components (A) and (B) is less than or equal to 0.02, the refractive indices each being determined by the methods specified in the description.

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3. The thermoplastic molding composition according to claim 1 or 2, wherein the first graft shell (C2) is obtainable by polymerizing a monomer mixture consisting of

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(C21) from 30 to 35% by weight, based on (C2), of a styrenic monomer,

(C22) from 63 to 70% by weight, based on (C2), of a C₁-C₈-alkyl ester of methacrylic acid and

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(C23) from 0 to 2% by weight, based on (C2), of a crosslinking monomer.

4.

The thermoplastic molding composition according to any of claims 1 to 3, wherein the first graft shell (C2) is obtainable by polymerizing a monomer mixture consisting of

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(C21) from 31 to 35% by weight, based on (C2), of a styrenic monomer,

- (C22) from 63 to 68% by weight, based on (C2), of a C₁-C₈-alkyl ester of methacrylic acid and
- 5 (C23) from 1 to 2% by weight, based on (C2), of a crosslinking monomer.
5. The thermoplastic molding composition according to any of claims 1 to 4, wherein the magnitude of the difference between the refractive index ($n_D-C_2C_3$) of the overall graft shell of the graft copolymer C and the refractive index (n_D-C_1) of the core (C1) is less than 0.06, the refractive indices each being determined by the methods specified in the description.
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6. The thermoplastic molding composition according to any of claims 1 to 5, wherein the styrenic monomer used is styrene.
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7. The thermoplastic molding composition according to any of claims 1 to 6, wherein the graft copolymer (C) has a swelling index SI of from 10 to 40, the swelling index SI being determined by the methods specified in the description.
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8. A process for producing thermoplastic molding compositions according to any of claims 1 to 7, which comprises
- (A) from 30 to 69% by weight, based on the sum of components (A), (B) and (C), of a methyl methacrylate polymer obtainable by polymerizing a mixture consisting of
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- (A1) from 90 to 100% by weight, based on (A), of methyl methacrylate, and
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- (A2) from 0 to 10% by weight, based on (A), of a C₁-C₈-alkyl ester of acrylic acid, and
- (B) from 30 to 69% by weight, based on the sum of components (A), (B) and (C), of a copolymer obtainable by polymerizing a mixture consisting of
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- (B1) from 75 to 88% by weight, based on (B), of a styrenic monomer and
- (B2) from 12 to 25% by weight, based on (B), of a vinyl cyanide
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- and
- (C) from 1 to 40% by weight, based on the sum of components (A), (B) and (C), of a graft copolymer obtainable from
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- (C1) from 60 to 90% by weight, based on (C), of a core obtainable by polymerizing a monomer mixture consisting of
- 5 (C11) from 65 to 90% by weight, based on (C1), of a 1,3-diene and
- (C12) from 10 to 35% by weight, based on (C1), of a styrenic monomer
- 10 and
- (C2) from 5 to 20% by weight, based on (C), of a first graft shell obtainable by polymerizing a monomer mixture consisting of
- 15 (C21) from 30 to 39% by weight, based on (C2), of a styrenic monomer,
- (C22) from 61 to 70% by weight, based on (C2), of a C₁-C₈-alkyl ester of methacrylic acid and
- 20 (C23) from 0 to 3% by weight, based on (C2), of a crosslinking monomer
- and
- 25 (C3) from 5 to 20% by weight, based on (C), of a second graft shell obtainable by polymerizing a monomer mixture consisting of
- 30 (C31) from 70 to 98% by weight, based on (C3), of a C₁-C₈-alkyl ester of methacrylic acid and
- (C32) from 2 to 30% by weight, based on (C3), of a C₁-C₈-alkyl ester of acrylic acid
- 35 and
- (D) if desired, customary additives in amounts of up to 20% by weight, based on the sum of components (A), (B) and (C),
- 40 with the proviso that the weight ratio of (C2) to (C3) is in the range from 2:1 to 1:2,
- by mixing components (A), (B), (C) and, where present, (D) in the melt.
- 45 9. The use of the thermoplastic molding composition according to any of claims 1 to 7 for producing moldings.

10. A molding comprising the thermoplastic molding composition according to any of claims 1 to 7.